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Tuesday, June 28, 2005


Case Serial Number: 09/951765

From: Etelka R. Griffin
Location: EIC 3600
KNOX/4B68
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Changed Serial to 667060
Search Notes

Pat#6546830

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Terms: **patno=6546830** ([Edit Search](#))

951765 (09) 6546830 April 15, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6546830

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April 15, 2003

Transmission device of four-wheel drive vehicle

APPL-NO: 951765 (09)


FILED-DATE: September 13, 2001

GRANTED-DATE: April 15, 2003

CORE TERMS: shaft, gear, drive, input, rear, driven, counter, driving force, reduction, transmitted ...

ENGLISH-ABST:

A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

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Terms: **patno=6546830** ([Edit Search](#))

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Date/Time: Tuesday, June 28, 2005 - 3:37 PM EDT

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1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

Patent Number :

US2002066324 A1 20020606 [US20020066324]

Patent Number 2 :

US6546830 B2 20030415 [US6546830]

Title :

(A1) Transmission device of four-wheel drive vehicle

Patent Assignee :

(A1) FUJI HEAVY IND LTD (JP)

Patent Assignee :

Fuji Jukogyo Kabushiki Kaisha, Tokyo [JP]

Patent Assignee 2 :

(B2) FUJI HEAVY IND LTD (JP)

Inventor(s) :

(A1) KANAZAWA KAZUO (JP)

Application Nbr :

US95176501 20010913 [2001US-0951765]

Priority Details :

JP2000280602 20000914 [2000JP-0280602]

Intl Patent Class :

(A1) F16H-037/00 F16H-037/16

EPO ECLA Class :

B60K-017/344

B60K-017/35B1

B60K-023/08B

US Patent Class :

CROSS-REFERENCE (X) : 074333000

Document Type :

Corresponding document

Citations :

US4208923; US5123293; US5640882; US5947218; US6044720; US6332371;

JP7-167257; JP362178429

Publication Stage :

(A1) Utility Patent Application published on or after January 2, 2001

Publication Stage 2 :

(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

Abstract :

A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

Update Code :

2002-25

1 / 1 LGST - @EPO

Patent Number :

US2002066324 A1 20020606 [US20020066324]

US6546830 B2 20030415 [US6546830]

Application Number :

US95176501 20010913 [2001US-0951765]

Action Taken :

20020111 US/AS-A

ASSIGNMENT

OWNER: FUJI JUKOGYO KABUSHIKI KAISHA 7-2, NISHISHINJUKU 1; EFFECTIVE

DATE: 20011228

1 / 1 INPADOC - @INPADOC

Patent Number :

US 6546830 BB 20030415 [US6546830]

Title :

TRANSMISSION DEVICE OF FOUR-WHEEL DRIVE VEHICLE

Inventor(s) :

KANAZAWA KAZUO [JP]

Patent Assignee (Words) :

FUJI HEAVY IND LTD [JP]

Application Details :

US 951765/01-A 20010913 [2001US-0951765]

Priority Details :

JP 2000280602/00-A 20000914 [2000JP-0280602]

Intl. Patent Class. :

F16H-037/06; F16H-003/08

1 / 1 LGST - @EPO

Patent Number :

US2002066324 A1 20020606 [US20020066324]

US6546830 B2 20030415 [US6546830]

Application Number :

US95176501 20010913 [2001US-0951765]

Action Taken :

20020111 US/AS-A

ASSIGNMENT

OWNER: FUJI JUKOGYO KABUSHIKI KAISHA 7-2, NISHISHINJUKU 1; EFFECTIVE

DATE: 20011228

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KANAZAWA,
KAZUO;REEL/FRAME:012472/0357

20031216 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030908

Update Code :

2004-41

1 / 1 CRXX - @CLAIMS/RRX

Patent Number :

6,546,830 A 20030415 [US6546830]

Patent Assignee :

Fuji Jukogyo K K JP

Actions :

20030908 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20031216

REISSUE REQUEST NUMBER: 10/657060

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